

What is claimed is:

~~1.~~ A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding Toll-like receptor 4, wherein said compound specifically hybridizes with said nucleic acid molecule encoding Toll-like receptor 4 and inhibits the expression of Toll-like receptor 4.

2. The compound of claim 1 which is an antisense oligonucleotide.

3. The compound of claim 2 wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO: 10, 11, 12, 16, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, and 33.

4. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.

5. The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothioate linkage.

6. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.

7. The compound of claim 6 wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.

8. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.

9. The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.

10. The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.

~~11.~~ A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding Toll-like receptor 4.

12. A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

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13. The composition of claim 12 further comprising a colloidal dispersion system.

14. The composition of claim 12 wherein the compound is an antisense oligonucleotide.

15. A method of inhibiting the expression of Toll-like receptor 4 in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of Toll-like receptor 4 is inhibited.

16. A method of treating an animal having a disease or condition associated with Toll-like receptor 4 comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of Toll-like receptor 4 is inhibited.

17. The method of claim 16 wherein the condition is an inflammatory disorder.

18. The method of claim 16 wherein the condition involves an immune response.

19. The method of claim 18 wherein the immune response is a Th1 response.

20. The method of claim 18 wherein the immune response is a Th2 response.

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